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IN THE CLAIMS

1. (Currently Amended) A method of locating position of a satellite signal receiver, comprising:

determining a Doppler effect measurement for each of a plurality of satellite signals relative to the satellite signal receiver at a first time; and computing [[a]] an initial position of the satellite signal receiver using the Doppler effect measurement for each of the plurality of satellite signals; forming Doppler residuals using the initial position and the Doppler measurements for each of the plurality of satellite signals; relating the Doppler residuals to a change in the initial position; and

2. (Original) The method of claim 1, wherein the <u>initial</u> position is a first fix of position for the satellite signal receiver.

computing an update of the initial position.

- (Original) The method of claim 1, wherein each of the plurality of satellite signals is associated with a predefined reference frequency.
- 4. (Original) The method of claim 1, wherein the plurality of satellite signals comprises at least one of a global positioning system (GPS) signal, a Galileo system signal, and a Glonass system signal.
- 5. (Canceled)
- 6. (Currently Amended) The method of claim [[5]] 1, wherein the estimating step comprises:

obtaining an approximate position of the satellite signal receiver from a wireless communication system.

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- 7. (Currently Amended) The method of claim [[5]] 1, wherein the initial position is an arbitrary location.
- 8. (Currently Amended) The method of claim [[5]] 1, wherein the initial position is a center of a country or a continent in which the satellite signal receiver is operating.
- (Currently Amended) The method of claim 1, further comprising:
 computing a frequency error associated with an oscillator of the satellite
 signal receiver using the Doppler effect measurement for each of the plurality of
 satellite signals.
- 10. (Original) The method of claim 1, further comprising: computing velocity of the satellite signal receiver using the Doppler offset for each of the plurality of satellite signals.
- 11. (Currently Amended) A method of locating position of a satellite signal receiver, comprising:

determining at least one pseudorange between the satellite signal receiver and a respective at least one satellite;

determining at least one Doppler effset measurement for a respective at least one satellite signal relative to the satellite signal receiver; and

computing [[a]] an initial position of the satellite signal receiver using the at least one pseudorange and the at least one Doppler offset measurement;

forming Doppler residuals using the initial position and the at least one Doppler measurement:

forming pseudorange residuals using the initial position and the at least one pseudorange;

relating the Doppler residuals and the pseudorange residuals to a change in the initial position; and

computing an update of the initial position.

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- 12. (Original) The method of claim 11, wherein the at least one satellite signal is respectively transmitted by the at least one satellite.
- 13. (Original) The method of daim 11, wherein the at least one satellite signal is transmitted by a respective at least one additional satellite.
- 14. (Original) The method of claim 11, wherein the position is a two-dimensional position comprising x and y coordinates in a horizontal plane.
- 15. (Canceled)
- 16. (Currently Amended) The method of claim [[15]] 11, wherein the estimating step comprises:

obtaining an approximate position of the satellite signal receiver from a wireless communication system.

- 17. (Currently Amended) The method of claim [[15]] 11, wherein the initial position is an arbitrary location.
- 18. (Currently Amended) The method of claim [[15]] 11, wherein the initial position is a center of a country or a continent in which the satellite signal receiver is operating.
- 19. (Original) The method of claim 11, wherein the at least one pseudorange is a sub-millisecond pseudorange.
- 20. (Currently Amended) The method of claim 19, wherein the computing step comprises:

computing an initial position of the satellite signal receiver using the at least one Doppler offset measurement;

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computing an integer millisecond portion of the at least one pseudorange using the initial position;

forming pseudorange residuals using the at least one pseudorange and the initial position; and

computing an update of the initial position.

- 21. (Original) The method of claim 11, wherein the position is a first fix of position for the satellite signal receiver.
- 22. (Currently Amended) The method of claim 11, further comprising:
 computing a frequency error associated with an oscillator of the satellite
 signal receiver using the at least one Doppler effset measurement and the at
 least one pseudorange.
- 23. (Currently Amended) The method of claim 11, further comprising: computing a time error associated with a clock of the satellite signal receiver using the at least one Doppler effect measurement and the at least one pseudorange.
- 24. (Currently Amended) The method of claim 11, further comprising: computing velocity of the satellite signal receiver using the at least one Doppler effset measurement and the at least one pseudorange.
- 25. (Canceled)
- 26. (Canceled)
- 27. (Canceled)
- 28. (Canceled)

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29. (Canceled)